



<http://www.mn-arts.org/>

Don't forget to sign up on the reflector!!

From the President

I hope you are having an exciting summer. Hopefully, in between the family and summer activities, you were able to build something or get on the air. I got to see many of you on Field Day (see my reflector post for more info) such as John, KJ0P, Mert, W0UFO, Leon, W0UCE, Jay, NJ0M, and a few others at the different locations. Next year I hope we can get MN-ARTS on the air for FD too.

Among other things this summer I decided to try and improve my CW skills and so while at Dayton I signed up for CWOps Academy (cwops.org). This group specializes in high speed CW, but they also have an online class that will either teach you CW from ground zero, or if you are at least 10 wpm, will help you become more proficient and "learn CW as a language" as my instructor Jack, W0UCE, says. We met via ooVoo (similar to Skype) 3-4 nights a week for about ½ hour each night for 6 weeks. There was homework, but the time went by fast. There were four of us in my group from faraway places like AL, IN, and OK. Jack pushed us hard but made it a lot of fun – he has a real passion for this and it showed. I have definitely increased my speed and I'm even starting to head copy (some) – if nothing

else I have significantly increased my confidence using CW. In the past I have spoken with some of you about learning CW, and although it would be great have our own class someday, this is a great course and I would encourage anyone interested to contact them via their website. I believe the next sessions start in September.

I also made the plunge and bought an old QRP transceiver I've been thinking about for a couple of years – a Heathkit HW-8. This radio was popular when I got my license and I never got to buy one to build. Thanks to a couple of you (Bob, K9OSC, and Paul, N0TYE) I was able to test it and get it on the air, making my first contact with a special event station in MD on 40M. I'm sure it needs more work to align it, but it worked! I will bring it to the next meeting so that I can hear your "ooohs" and "ahhhs".

See you at the next meeting on August 4th and bring some of your fun projects and stories to share.

73 de chuck ka8hde

June 2, 2012 Meeting Minutes

Chuck, KA8HDE, presided.

25 members in attendance.

Introductions were made around the table.

Minutes from the May 5th meeting were approved.

Old Business

Dave Kent, W0RU, offered to host field day activity at his place for anyone that was interested.

The Minnetonka Club approved the reciprocal membership agreement which was discussed at the May meeting.

The Minnetonka Club donated \$100 for the MARTS general fund.

This was the last day to become a charter member of MARTS.

New Business

All were encouraged to sign up and use the reflector which can be accessed from the club web page.

Larry Gaalaas, KB0R, mentioned that he was in the process of applying for a new club call sign.

Numerous comments were made concerning the Dayton convention.

The July meeting will not be held due to the 4th of July weekend.

Jeremy Mooney, KC0LDI, is working to get member names and call signs on the web site.

Business meeting adjourned.

Show & Tell

Dave Kent, W0RU, showed us his new dual band HT he got for \$42.50 at Dayton. Works great! Radio City will be carrying these Bafeng radios according to Dave. He also brought in copies of *Emergency Power* and *Short Antennas for 160 meters*.



Bill Unger, VE3XT, showed us how he took an entire station to Italy in a small plastic box.



Art Ripple, NS7E, brought in his Steve Weber kit with exchangeable band modules nicely mounted in Altoid tins.



Craig Johnson, AA0ZZ, discussed the differences between four different radios. He recommended the book: *The Electronics of Radio* for those interested in design. He also donated a working 20 MHz scope to be raffled off.



Chuck Stroud, KA8HDE, brought in his combination soldering station and dummy load that he built at Dayton.



Stan Leeson, AE0SL, showed us his travelling setup.

Presentation:

Mert Nellis, W0UFO, made the formal presentation for the day. He spoke on Detecting RF. Mert covered the following points:

- Generation of sine waves in the time domain.
- How to represent sine waves in the frequency domain.
- Difference between diode detection and direct conversion.
- How a ring mixer works as implemented in a doubly balanced mixer
- Sampling mixers and Taylo mixers (I&Q)

Mert provided numerous illustrations to support his points. Great presentation!! Thank you Mert!



Mert Nellis, W0UFO

Club Officers:

*President: Chuck Stroud/KA8HDE
Vice Pres: Larry Gaalaas/KB0R
Secretary: Steve Ulrich/NW0C
Treasurer: Paul Bushouse/N0TYE
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